

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 7    | ("5650807").URPN.   | USPAT   | OR               | ON      | 2006/05/30 12:53 |
| L2    | 23   | ("4413275"   "4521788"   "4611219"   "4630076"   "4683481"   "4712172"   "4723129"   "4847639"   "4894664"   "4914562"   "4914736"   "4969759"   "5148185"   "5156377"   "5156470"   "5156471"   "5156472"   "5156473"   "5174665"   "5221148"   "5328279"   "5367324"   "5421658").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | ON      | 2006/05/30 12:53 |
| L3    | 15   | ("20020008734"   "4339762"   "4712930"   "4725859"   "4870433"   "4914562"   "4947189"   "4947193"   "5559543"   "5639386"   "5694191"   "5808640"   "6123419"   "6139130"   "6276775").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | ON      | 2006/05/30 12:54 |
| L4    | 10   | ("4281333"   "5036337"   "5124716"   "5481287"   "6003973"   "6146915"   "6227640"   "6267468"   "6276775"   "6318847").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | ON      | 2006/05/30 13:00 |
| L5    | 32   | ("4870433").URPN.   | USPAT   | OR               | ON      | 2006/05/30 13:15 |
| L6    | 11   | ("4339762"   "4514741"   "4870433"   "4894664"   "4935752"   "5293182"   "5367324"   "5428376"   "5477243"   "5808640"   "5835112").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | ON      | 2006/05/30 13:16 |
| L7    | 11   | ("4339762"   "4458256"   "4514741"   "4870433"   "4935752"   "5212503"   "5455613"   "5475405"   "5808640"   "5835112"   "6123419").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | ON      | 2006/05/30 13:40 |
| S1    | 2    | "20050104918"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/11/07 10:34 |
| S2    | 5    | ((("5,699,462") or ("6,487,333") or ("6,324,316") or ("6,195,478") or ("6,320,994")).PN.  | USPAT   | OR               | OFF     | 2005/11/07 10:34 |
| S3    | 5    | ((("5,699,462") or ("6,487,333") or ("6,324,316") or ("6,195,478") or ("6,320,994")).PN.  | USPAT   | OR               | OFF     | 2006/01/05 09:34 |
| S4    | 3    | S3 and (lnk with jet)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/01/05 09:55 |
| S5    | 3    | ("4988157"   "5699462"   "5978527").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR               | ON      | 2006/01/05 09:36 |
| S6    | 2    | S5 and (lnk with jet)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/01/05 09:37 |
| S7    | 9388 | agilent.as.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/01/05 09:55 |
| S8    | 138  | (heater with lead) same (integrated with circuit)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/01/05 10:28 |
| S9    | 0    | S7 and S8   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/01/05 09:56 |
| S10   | 286  | (heater same lead) same (integrated with circuit)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/01/05 09:56 |

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|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S11 | 0     | S7 and S10  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 09:56 |
| S12 | 381   | (heater same lead) same (Integrated same circuit)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 09:56 |
| S13 | 0     | S7 and S12  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 09:56 |
| S14 | 2499  | (heater same lead) and (Integrated same circuit)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 09:58 |
| S15 | 4     | S7 and S14  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 09:56 |
| S16 | 2806  | (heater) same (Integrated with circuit)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 09:58 |
| S17 | 5     | S7 and S16  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 09:58 |
| S18 | 8     | ("4505539"   "4988157"   "5280012"   "5453494"   "5653008"   "5699462"   "6055344"   "6229640").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 10:00 |
| S19 | 1     | S18 and (ink with jet)  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 10:00 |
| S20 | 53    | ((lead with (first and second)) same (ground and insulat\$3)) same heater                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 10:33 |
| S21 | 302   | ((((lead connect\$3 layer) with (first and second)) same (ground and insulat\$3)) same heater       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:02 |
| S22 | 64573 | "347"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 10:34 |
| S23 | 11    | S21 and S22   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 10:34 |

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|     |        |   |   |    |    |                  |
|-----|--------|---|---|----|----|------------------|
| S24 | 4      | ("4528574"   "4695853"   "4866460"   "6079811").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 10:35 |
| S25 | 61     | ((lead connect\$3 layer) with (first and second and third)) same (ground and insulat\$3)) same heater   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:02 |
| S26 | 64573  | "347"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:02 |
| S27 | 374    | ((lead connect\$3 layer) with (multiple plural\$3 (first and second and third))) same (ground and insulat\$3)) same heater  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:12 |
| S28 | 0      | S25 and S26   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:04 |
| S29 | 13     | S27 and S26   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:04 |
| S30 | 4      | ("4528574"   "4695853"   "4866460"   "6079811").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 12:11 |
| S31 | 175653 | ((lead connect\$3 layer contact) with (conduct\$3 electric\$4)) same (first and second and third)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:13 |
| S32 | 3935   | ((lead connect\$3 layer contact) with (conduct\$3 electric\$4)) same (first and second and third)) same heater  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:17 |
| S33 | 23253  | ((lead connect\$3 layer contact) with (conduct\$3 electric\$4)) same (first and second and third)) same (heater resistor)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:14 |
| S34 | 1146   | S26 and S31   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:14 |
| S35 | 107    | S26 and S32   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:17 |
| S36 | 14     | ("4532530"   "4947192"   "4951063"   "5081473"   "5157418"   "5844586"   "5980025"   "6013160"   "6120135"   "6139131"   "6252617"   "6310639"   "6315398"   "6331049").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 12:30 |

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|     |       |  |   |    |    |                  |
|-----|-------|--|---|----|----|------------------|
| S37 | 12699 | ((resis\$3 heater) with (multiple plural\$3)) same (area region)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:53 |
| S38 | 540   | S26 and S37  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:44 |
| S39 | 444   | 347/61   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:44 |
| S40 | 52    | S39 and S37  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:44 |
| S41 | 34163 | (multiple plural\$3) with (current with (flow path))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:54 |
| S42 | 4828  | ((multiple plural\$3) with (current with (flow path))) same (heater resistor)                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:56 |
| S43 | 6     | S39 and S42  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:54 |
| S44 | 2787  | ((multiple plural\$3) with (current adj (flow path))) same (heater resistor)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:03 |
| S45 | 36    | S26 and S44  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 12:56 |
| S46 | 2943  | (current adj (flow path flux density) with (multiple (first and second and third))) same (heater resistor) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:07 |
| S47 | 550   | S46 and (integrated adj circuit)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:05 |
| S48 | 4     | S26 and S47  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:05 |

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|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S49 | 124 | (current adj (flow path flux density) with (multiple (first and second and third))same<br>insulat\$3) same (heater resistor)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:13 |
| S50 | 17  | ((resistive adj (area region)) with (wire lead)) same insulat\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:15 |
| S51 | 1   | S26 and S50  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:14 |
| S52 | 1   | 2005-415893.NRAN.  | DERWENT   | OR | ON | 2006/01/05 13:15 |
| S53 | 29  | ((resistive with (area region)) with (wire lead)) same (insulat\$3 and heater)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:16 |
| S54 | 8   | ("4313124"   "4339762"   "4345262"   "4567493"   "4695853"   "4792818"  <br>"4914562"   "5021806").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 13:36 |
| S55 | 5   | abe.in. and 347/62   | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 13:39 |
| S56 | 1   | "4914562".pn.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 13:38 |
| S57 | 5   | abe.in. and 347/62   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:39 |
| S58 | 7   | ("5650807").URPN.  | USPAT   | OR | ON | 2006/01/05 13:44 |
| S59 | 23  | ("4413275"   "4521788"   "4611219"   "4630076"   "4683481"   "4712172"  <br>"4723129"   "4847639"   "4894664"   "4914562"   "4914736"   "4969759"  <br>"5148185"   "5156377"   "5156470"   "5156471"   "5156472"   "5156473"  <br>"5174665"   "5221148"   "5328279"   "5367324"   "5421658").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 13:49 |
| S60 | 481 | 347/62   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:50 |
| S61 | 450 | S60 not silverbrook.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/01/05 13:50 |
| S62 | 17  | ("4339762"   "4514741"   "4792818"   "4862197"   "4870433"   "4935752"  <br>"5083137"   "5206659"   "5293182"   "5428376"   "5455613"   "5486848"  <br>"5521622"   "5636441"   "5673069"   "5726690"   "5808640").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 14:30 |
| S63 | 6   | ("6227640").URPN.  | USPAT   | OR | ON | 2006/01/05 14:34 |
| S64 | 32  | ("4870433").URPN.  | USPAT   | OR | ON | 2006/01/05 14:35 |
| S65 | 15  | ("20020008734"   "4339762"   "4712930"   "4725859"   "4870433"   "4914562"  <br>"4947189"   "4947193"   "5559543"   "5639386"   "5694191"   "5808640"  <br>"6123419"   "6139130"   "6276775").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/05 14:36 |
| S66 | 3   | ("4988157"   "5699462"   "5978527").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR | ON | 2006/01/06 08:27 |

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|     |       |   |   |     |    |                  |
|-----|-------|---|---|-----|----|------------------|
| S67 | 3     | ("4988157"   "5699462"   "5978527").PN.                             | US-PGPUB;<br>USPAT;<br>USOCR                                      | OR  | ON | 2006/01/06 08:34 |
| S68 | 1499  | 257/363,379,516.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON | 2006/05/30 10:12 |
| S69 | 66395 | "347"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON | 2006/05/30 10:13 |
| S70 | 8     | S68 and S69   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON | 2006/05/30 10:15 |
| S71 | 650   | (heater with design) same resistiv\$3                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON | 2006/05/30 10:16 |
| S72 | 0     | S68 and S71   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON | 2006/05/30 10:15 |
| S73 | 156   | S69 and S71   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON | 2006/05/30 10:16 |
| S74 | 0     | (heater with design) same (third with resistiv\$3)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON | 2006/05/30 10:16 |
| S75 | 52    | (heater with design) and (third with resistiv\$3)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON | 2006/05/30 10:16 |
| S76 | 10    | S69 and S75   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR  | ON | 2006/05/30 10:18 |
| S77 | 689   | (heat\$3 first second third conduct\$3 resistiv\$3).clm.            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/05/30 10:18 |
| S78 | 327   | (heat\$3 first second third conduct\$3 resistiv\$3 Insulat\$3).clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/05/30 10:19 |

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|     |     |   |   |     |    |                  |
|-----|-----|---|---|-----|----|------------------|
| S79 | 19  | S69 and S78   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/05/30 10:27 |
| S80 | 608 | (((first second third) with resistiv\$3) Insulat\$3).clm.         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/05/30 10:34 |
| S81 | 16  | S68 and S80   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/05/30 10:28 |
| S82 | 115 | (((first second third) with resistiv\$3) Insulat\$3 heat\$3).clm. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/05/30 10:36 |
| S83 | 1   | S68 and S82   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | AND | ON | 2006/05/30 10:34 |